32-5027-16
Available in French Canadian (FC)

# User's Information Guide

## Gas Furnaces — Non-Condensing Fan Assisted Combustion System Upflow/Horizontal and Downflow/Horizontal

**⚠ WARNING**

**If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

**— Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.**

**— WHAT TO DO IF YOU SMELL GAS**

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

**— DO NOT RELY ON SMELL ALONE TO DETECT LEAKS. DUE TO VARIOUS FACTORS, YOU MAY NOT BE ABLE TO SMELL FUEL GASES.**

- **U.L. recognized fuel gas and CO detectors are recommended in all applications, and their installation should be in accordance with the manufacturer's recommendations and/or local laws, rules, regulations, or customs.**

**— Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

**⚠ WARNING**

**SAFETY HAZARD**

**DO NOT USE THIS UNIT IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE FURNACE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.**

**FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.**

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## GENERAL INFORMATION

Understand the signal words **WARNING** and **CAUTION**. These words are safety alert words. **WARNING** indicates hazards which **could** result in personal injury or death. **CAUTION** is used to indicate unsafe practices which could result in minor injury or property damage.

### IMPORTANT FACTS

The flow of combustion and ventilating air must not be obstructed from reaching the furnace. Air openings provided in the casing of the furnace must be kept free of obstructions which would restrict airflow, thereby affecting efficiency and safe operation of your furnace.

Also, air openings provided to the area in which the furnace is installed and the space around the furnace shall not be blocked or obstructed. Keep this in mind should you choose to remodel the area which contains your furnace. If additional insulation is added after the furnace is installed, the area around the furnace must be inspected to ensure it is free and clear of insulation. If this furnace is installed in an attic or other insulated space it must be kept free and clear of all insulating materials as some insulating materials are combustible.

Furnaces must have air for proper performance. There must be a free flow of fresh air sufficient for efficient combustion and safe ventilation of your furnace.

The combustion air for your furnace must be fresh uncontaminated air. Paints, varnishes, laundry bleaches, detergents, many household cleaners, water softening salts, adhesives, and all such products release fumes containing compounds which could lead to early heat exchanger and vent system deterioration. Do not store these types of products near your furnace.

# User's Information

**Never store gasoline, combustible materials, or other flammable liquids or vapors near your furnace.**

Carbon monoxide, fire or smoke can cause serious bodily injury, death, and/or property damage.

A variety of potential sources of carbon monoxide can be found in a building or dwelling such as gas-fired clothes dryers, gas cooking stoves, water heaters, furnaces and fireplaces. The U.S. Consumer Product Safety Commission recommends that users of gas-burning appliances install carbon monoxide detectors as well as fire and smoke dectectors, listed by a nationally recognized agency (e.g. Underwriters Laboratories or International Approval Services), to help alert dwelling occupants of the presence of fire, smoke or unsafe levels of carbon monoxide.

***NOTE: The manufacturer of your furnace does not test any detectors and makes no representations regarding any brand or type of detector.***

**⚠ WARNING**

**SAFETY HAZARD**

**BODILY INJURY CAN RESULT FROM HIGH VOLTAGE ELECTRICAL COMPONENTS, FAST MOVING FANS, AND COMBUSTIBLE GAS. FOR PROTECTION FROM THESE INHERENT HAZARDS DURING INSTALLATION AND SERVICING, THE ELECTRICAL SUPPLY MUST BE DISCONNECTED AND THE MAIN GAS VALVE MUST BE TURNED OFF. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.**

Installing and servicing heating equipment can be hazardous due to gas and electrical components. Only trained and qualified personnel should install, repair or service heating equipment.

Untrained personnel can perform basic maintenance functions such as cleaning and replacing filters. All other operations must be performed by trained service personnel.

Parts and controls of this furnace are unique. Should service or modification be required, be sure your servicer uses only factory authorized parts, kits, or accessories for this furnace.

If you experience a problem with the operation of your furnace, check the "Problem Solver" section of this manual before you call for a possibly unneeded service call.

**⚠ WARNING**

**SAFETY HAZARD**

**IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE, OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THE INSTALLATION INSTRUCTIONS PROVIDED WITH THE FURNACE AND THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY, OR THE GAS SUPPLIER. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.**

# To Start the Furnace

**Lighting instructions.**

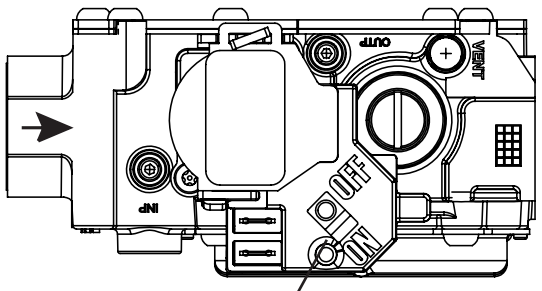
Your furnace does not use a continuously burning pilot flame. Therefore, manually lighting your furnace is not required. Your furnace is equipped with an automatic ignition system. It uses a hot surface ignition device that automatically lights the burners each time the thermostat signals the furnace to start.

**⚠ WARNING**

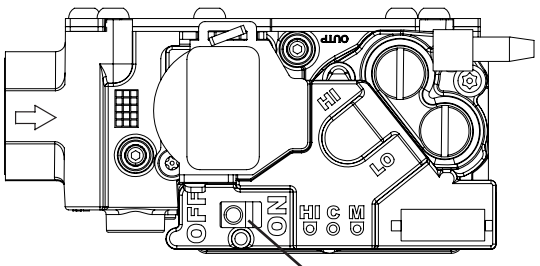
**SAFETY HAZARD**

**DO NOT ATTEMPT TO MANUALLY LIGHT THE FURNACE. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.**

1. Please read all safety information in this book before operating furnace.
2. Set thermostat to lowest setting. Turn off all electric power to furnace.
3. Remove the furnace front panel to gain access to the main gas valve.
4. Turn gas cock knob clockwise or the toggle switch located on the main gas valve inside the unit to "OFF" position (see illustration on this page). If external gas cock is used, turn to "OFF" position (see illustration on next page). Allow 5 minutes for any gas within the unit to escape. LP gas being heavier than air may require forced ventilation. If you smell gas STOP! Follow the "What To Do If You Smell Gas" instructions on the front cover of this book. If you don't smell gas, go to next step.
5. Turn gas cock knob counterclockwise or the toggle switch to "ON" marker (see illustration on this page).
6. Replace the furnace front access panel.
7. Turn on main electrical supply and set thermostat to desired setting. Combustion blower will start and ignition device will start to heat up. After approximately 15 seconds main gas valve will open and burners will ignite.




On/Off Switch




Gas Valve On/Off Toggle Switch

**Your furnace may have a "Knob Switch" or a "Toggle Switch" to turn the gas ON or OFF.**

© 2009 Trane

8. When thermostat is satisfied, main burners will extinguish.
9. If main burners fail to ignite, lower thermostat setting or disconnect electrical supply, wait 5 minutes, raise thermostat setting above indicated temperature.
10. If furnace will not light, turn "OFF" all gas and electricity to unit and call servicer or gas supplier.

**For complete shutdown.**
Turn gas cock knob on main gas valve to "OFF" position. Disconnect electrical supply to unit.

**⚠ CAUTION**

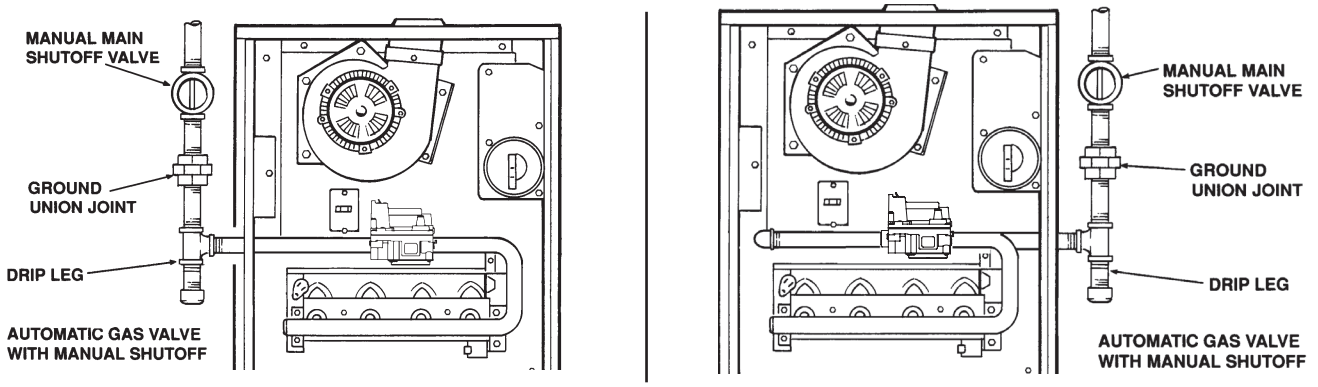
**If this is done during the cold weather months, provisions must be taken to prevent freeze-up of all water pipes and water receptacles.**

Whenever your house is to be vacant, arrange to have someone inspect your house for proper temperature. If your furnace should fail to operate, damage could result, such as frozen water pipes.

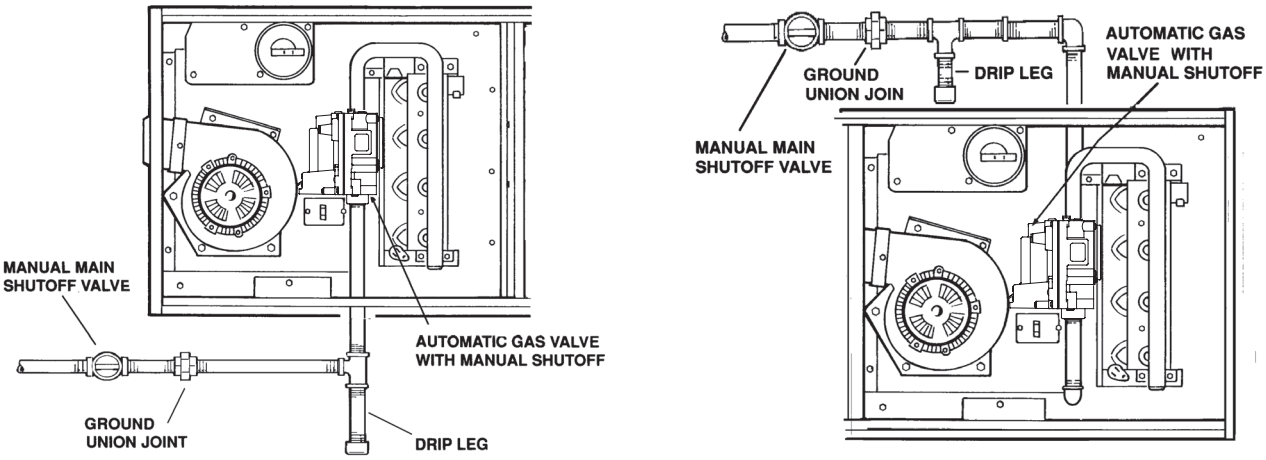
**Flame Roll-out Device.**
All models are equipped with a fusible link located near the burners. In case of flame roll-out, the link will open (melt) and cause the circuit to open which shuts off all flow of gas.

## NOTE THE LOCATION OF THE MANUAL MAIN GAS SHUTOFF VALVE FOR YOUR FURNACE.

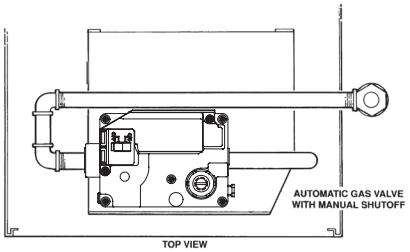
Have your installer or servicer show you the location if you have any questions.




**UPFLOW FURNACE Manual Main Gas Shut-off Valve May Be Located on the Left or Right Side**




**HORIZONTAL FURNACE Manual Main Gas Shut-off Valve May Be Located on the Top or Bottom Side**




**TOP VIEW OF RIGHT SIDE PIPING**

# Proper Maintenance Reduces Energy Use

**AIR FILTERS**

***NOTE: Filters are NOT included with all Furnaces***

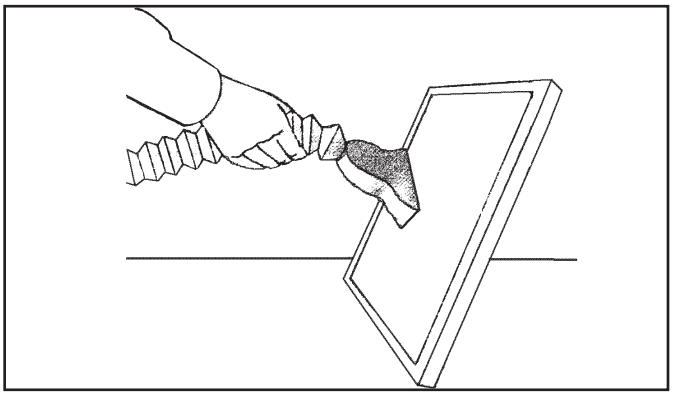
**A clean filter saves money.**
When the furnace circulates and filters the air in your home, dust and dirt particles build up on the filter. Excessive accumulation can block the airflow, forcing the unit to work harder to maintain desired temperatures.

And the harder your unit has to work, the more energy it uses. So you pay more any time your system is running with a dirty filter.

## ⚠ CAUTION

**Never operate your unit for either heating or cooling with filters removed.**

Help ensure top efficiency by cleaning the filter once a month. Clean it twice a month during seasons when the unit runs more often.



Your filter may or may not be framed.

You can clean the filter with a vacuum, OR you can wash it with a household detergent.

Both methods are quick and easy, and guaranteed to improve the performance of your system.

**Replacing your filter.**
When replacing your furnace filters, always use high velocity type which are the same size as originally supplied. Filters are available from your dealer.

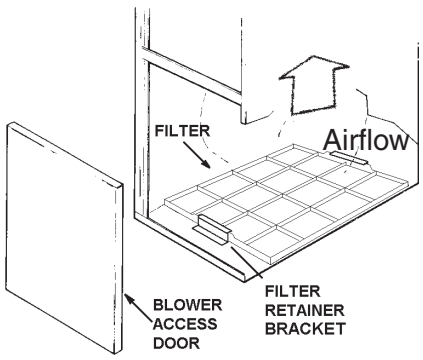
Where disposable filters are used, they must be a high velocity type which are the same size as originally supplied.

**How to remove your filter.**

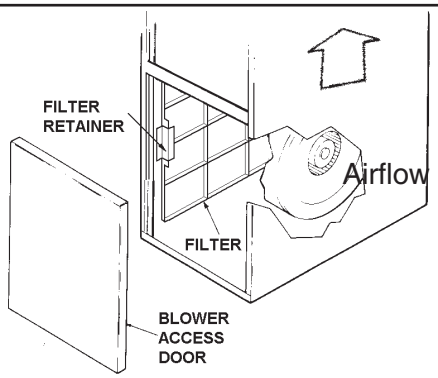
## ⚠ WARNING

**SAFETY HAZARD**
**DISCONNECT POWER TO UNIT BEFORE MOVING THE BLOWER DOOR. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.**

Upflow furnaces use a high velocity type air filter which may be located within the furnace blower compartment in either a BOTTOM or SIDE (left or right) return air inlet. The furnace may be secured with filter retaining brackets (as shown) or a filter retainer wire.




**UPFLOW BOTTOM RETURN**



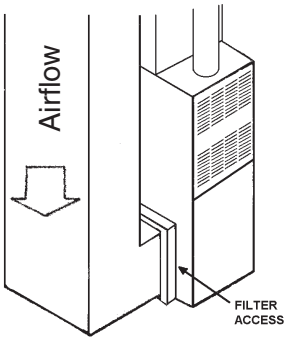

**UPFLOW SIDE RETURN**

To replace filters, remove blower access door, push back to flex the filter and clear the filter retaining bracket at the front of the unit. After cleaning, replace the filter in the same manner making sure that the filter wire is secured in place in both front and back filter retaining brackets. Replace blower access door.

A bottom return air inlet as shown features a 17" x 25" x 1" filter in the 17-1/2" wide furnace cabinets; a 20" x 25" x 1" filter in the 21" wide models; and a 24" x 25" x 1" filter in the 24-1/2" wide cabinet.

For vertical UPFLOW ONLY, a left or right return air inlet as above (left side shown) requires trimming of the factory supplied filter to 17" x 25" x 1" for both the 21" and 24-1/2" wide furnaces.

Air filters may also be located outside of the furnace using a **SIDE FILTER FRAME.**



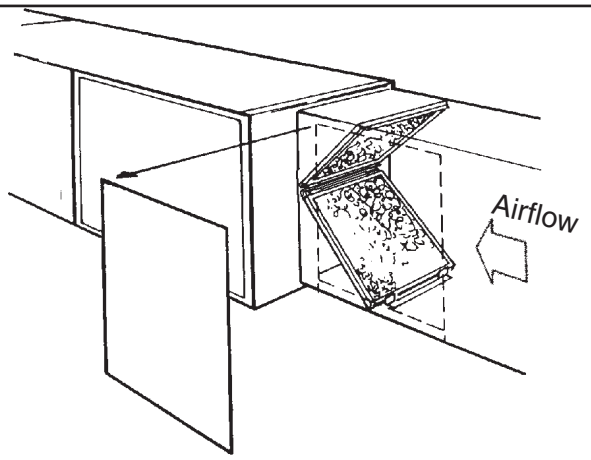

**UPFLOW ONLY**

**Upflow/Horizontal Furnace Filters**

The Upflow/Horizontal furnace when installed horizontally requires a horizontal filter kit. The filters may be located remote to the furnace or in the return air duct near the furnace. Check with your dealer for the location of your filters.

An upflow/horizontal furnace in horizontal return air filter application, as shown, features two 16" x 20" x 1" filters in the 17-1/2", 21" and 24-1/2" wide furnace cabinets.

To replace filters, remove the filter access door, lift the filter from the lower bracket and shift the filter to the side to free the top filter from the bracket and slide the filters out through the filter access door. After cleaning, replace the filters in the same manner making sure that the filters are secured in place in both top and bottom filter brackets. Replace filter access door.




**UPFLOW/HORIZONTAL WITH FILTER KIT**

Air filters may also be located outside of the furnace using a remote filter grille**.** The filter grille could be in a hallway, wall, or in the ceiling. Check with your dealer for the exact location of your filter and the method of changing the filters.

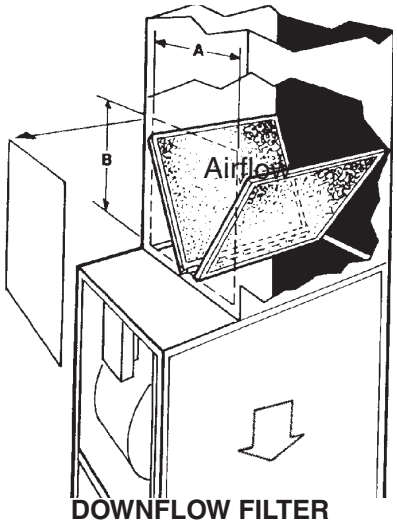
**UPFLOW FILTER TABLES**

| REQUIRED FILTERS - BOTTOM | |
|---|---|
| **CABINET WIDTH** | **FILTER QUANTITY & SIZE** |
| 14-1/2" | 1 - 14" X 25" X 1" |
| 17-1/2" | 1 - 17" X 25" X 1" |
| 21" | 1 - 20" X 25" X 1" |
| 24-1/2" | 1 - 24" X 25" X 1" |

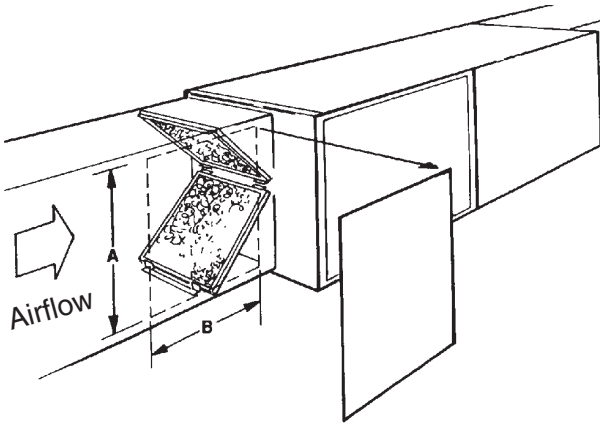
| REQUIRED FILTERS - SIDE ** | |
|---|---|
| **CABINET WIDTH** | **FILTER QUANTITY & SIZE** |
| 14-1/2" | 1 - 17" X 25" X 1" |
| 17-1/2" | 1 - 17" X 25" X 1" |
| 21" | 1 - 20" X 25" X 1" |
| 24-1/2" | 1 - 24" X 25" X 1" |
| ** ALL 5 TON AIRFLOW MODELS ("960", "961", OR "972"), **REQUIRE** BOTH SIDES **OR** 1 SIDE AND THE BOTTOM, **OR** JUST THE BOTTOM FOR SUFFICIENT AIRFLOW | |

Downflow/Horizontal furnaces are factory supplied with 2 standard size permanent type air filters which may be located remote to the furnace or in the return air duct. Check with your dealer for the location of your filters.

A downflow/horizontal furnace return air filter application, as shown, features two 14" x 20" x 1" filters in the 17-1/2" wide furnace cabinets; or two 16" x 20" x 1" filters in the 21" and 24-1/2" wide furnace cabinets.




**DOWNFLOW FILTER**




**DOWNFLOW/HORIZONTAL FILTER**

**DOWNFLOW FILTER TABLE**

| REQUIRED FILTERS - DOWNFLOW | |
|---|---|
| CABINET WIDTH | FILTER QTY AND SIZE |
| 14-1/2" | 2 - 14" X 20" X 1" |
| 17-1/2" | 2 - 16" X 20" X 1" |
| 21" | 2 - 16" X 20" X 1" |
| 24-1/2" | 2 - 16" X 20" X 1" |

# The Problem Solver

A furnace is not a household appliance. It is complex and requires professional maintenance and repair.

That's why attempts at "do-it-yourself" repairs on an in-warranty unit may void the remainder of your warranty.

Other than performing the simple maintenance recommended in this manual, you should not attempt to make any adjustments to your furnace. Your dealer will be able to take care of any questions or problems you may have. A periodic inspection of your furnace should be made by a qualified service agency at the start of each heating season.

**Keep your furnace looking like new for years.**
Clean the enamel finish of your furnace with ordinary soap and water. For stubborn grease spots, use a household detergent. Lacquer thinner or other synthetic solvents may damage the finish.

## Save time and money. Before calling for service, check the following:

| Problem | Possible Trouble | Possible Remedy |
|---|---|---|
| No Heating – Blower does not operate. | 1. Thermostat set incorrectly. | 1. Adjust thermostat. See operating instructions. |
| | 2. Blown fuse or tripped circuit breaker. | 2. Replace or reset protective device or call for servicer. |
| | 3. Defective component. | 3. Most controls are automatic and will recycle. If your unit still does not operate call for servicer. |
| | 4. Burner does not ignite. | 4. Call servicer. |
| | 5. Main gas line turned off. | 5. Have gas company check. |
| | 6. Blower door removed or ajar. | 6. Close door securely to restore power to blower and gas valve. |
| | 7. Lockout | 7. Turn power on-off-on-off twice in 30 seconds. |
| Insufficient Heating – Blower operates continuously. | 1. Dirty air filters. | 1. Clean or replace filters. |
| | 2. Blocked supply or return registers. | 2. Make sure registers are open and No obstacles blocking off the air. |
| No Heat – Vent motor is running. | Restricted or plugged furnace Condensate drain. | 1. Remove drain clamps to condensate trap and drain pan outlet. |
| | | 2. Flush or clean drain blockage. |
| | | 3. Reinstall clamps. |
| **Unusual Noise** | | Call your servicer |

The following warning complies with State of California law, Proposition 65.

## ⚠ WARNING

**THIS PRODUCT CONTAINS FIBERGLASS WOOL INSULATION!**

**Fiberglass dust and ceramic fibers are believed by the State of California to cause cancer through inhalation. Glasswool fibers may also cause respiratory, skin, or eye irritation.**

**PRECAUTIONARY MEASURES**

- Avoid breathing fiberglass dust.
- Use a NIOSH approved dust/mist respirator.
- Avoid contact with the skin or eyes. Wear long-sleeved, loose-fitting clothing, gloves, and eye protection.
- Wash clothes separately from other clothing: rinse washer thoroughly.
- Operations such as sawing, blowing, tear-out, and spraying may generate fiber concentrations requiring additional respiratory protection. Use the appropriate NIOSH approved respirator in these situations.

**FIRST AID MEASURES**

**Eye Contact** – Flush eyes with water to remove dust. If symptoms persist, seek medical attention.

**Skin Contact** – Wash affected areas gently with soap and warm water after handling.

## ⚠ WARNING

### CARBON MONOXIDE POISONING HAZARD

**THE SYSTEM'S VENTING INSTALLATION AND OPERATION INSTRUCTIONS MUST BE FOLLOWED. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, CARBON MONOXIDE POISONING, OR DEATH.**

# Regular Dealer Maintenance

**Never stop the cooling system by shutting off the main power.**
If the main power to your air conditioner is ever disconnected for more than three hours, turn off the thermostat. Then wait for at least three more hours after the power has been restored before turning the thermostat back on. Failure to follow this procedure could result in damage to your air conditioning system.

1. GENERAL INSPECTION – Examine the furnace installation for the following items:
   a. All flue product carrying areas external to the furnace (i.e. chimney, vent connector) are clear and free of obstruction.
   b. The vent connector is in place, slopes upward and is physically sound without holes or excessive corrosion.
   c. The return air duct connection(s) is physically sound, is sealed to the furnace and terminates outside the space containing the furnace.
   d. The physical support of the furnace should be sound without sagging, cracks, gaps, etc., around the base so as to provide a seal between the support and the base.
   e. There are no obvious signs of deterioration of the furnace.

The following warning complies with State of California law, Proposition 65.

**⚠ WARNING**

**HAZARDOUS GASES!**
**EXPOSURE TO FUEL SUBSTANCES OR BY-PRODUCTS OF INCOMPLETE FUEL COMBUSTION IS BELIEVED BY THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.**

2. BLOWERS – The blower size and speed determine the air volume delivered by the furnace. The blower motor bearings are factory lubricated and under normal operating conditions usually do not require servicing. Annual cleaning of the blower wheel and housing is recommended for maximum air output, and this must be performed only by a qualified servicer or service agency.

**⚠ WARNING**

**SAFETY HAZARD**
**UNIT IS EQUIPPED WITH A BLOWER DOOR SWITCH WHICH CUTS POWER TO BLOWER AND GAS VALVE CAUSING SHUTDOWN WHEN DOOR IS REMOVED. UNIT MUST NOT BE ALTERED TO ALLOW OPERATION WITH THE BLOWER DOOR REMOVED. OPERATION WITH DOORS REMOVED OR AJAR CAN PERMIT THE ESCAPE OF DANGEROUS FUMES. ALL PANELS MUST BE SECURELY CLOSED AT ALL TIMES FOR SAFE OPERATION OF THE FURNACE. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, CARBON MONOXIDE POISONING, OR DEATH.**

3. IGNITER – This unit has a special hot surface direct ignition device that automatically lights the burners. Please note that it is very fragile and should be handled with care.

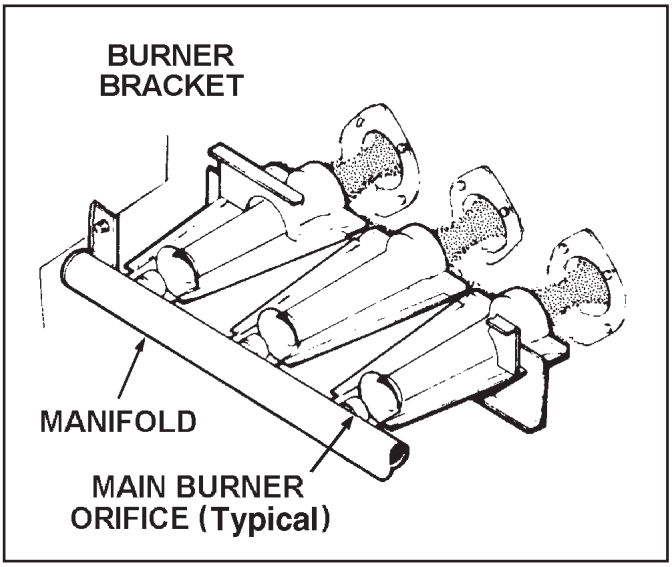
**⚠ CAUTION**

**Do NOT touch igniter. It is extremely hot.**

4. BURNER – Gas burners do not normally require scheduled servicing, however, accumulation of foreign material may cause a yellowing flame or delayed ignition. Either condition indicates that a service call is required. For best operation, burners must be cleaned annually using brushes and vacuum cleaner.

Turn off gas and electric power supply. To clean burners, remove top burner bracket and lift burner from orifice.

***NOTE: Be careful NOT to break igniter when removing burners.***




Clean burners with brush and/or vacuum cleaner. Reassemble parts by reversal of the above procedure.

***NOTE: On LP (propane) units, some light yellow tipping of the outer mantle is normal. Inner mantle should be bright blue.***

*Natural gas units should not have any yellow tipped flames. This condition indicates that a service call is required. For best operation, burners must be cleaned annually using brushes and vacuum cleaner.*

***NOTE: On LP (propane) units, due to variations in BTU content and altitude, servicing may be required at shorter intervals.***

5. HEAT EXCHANGER/FLUE PIPE – These items must be inspected for signs of corrosion, and/or deterioration at the beginning of each heating season by a qualified service technician and cleaned annually for best operation.
6. CIRCUIT PROTECTION – If blower or gas valve fail to operate, the cause could be the circuit breaker or a loose or blown fuse. Replace fuse or reset circuit breaker.

7. OPERATION – Your warm air furnace should not be operated in a corrosive atmosphere. Paint solvents, cleaning chemicals, spray propellants, and bleaches should not be used in the vicinity of the furnace during normal operation.
8. CONDENSATE DRAINS – If you have a cooling coil installed with your furnace, condensate drains should be checked and cleaned periodically to assure that condensate can drain freely from coil to drain. If condensate cannot drain freely water damage could occur. Furnace drain should also be checked & cleaned at the start of each heating season.
9. AIR CIRCULATION – To ensure increased comfort, the blower on this unit may be operated continuously for both heating and cooling. This will result in constantly filtered air and aid in maintaining more even temperatures by avoiding temperature stratification throughout the conditioned area. To accomplish constant air circulation, set your thermostat fan switch to "ON". Continuous fan mode during cooling operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.

**⚠ WARNING**

**SAFETY HAZARD**

**SHOULD OVERHEATING OCCUR, OR THE GAS VALVE SUPPLY FAIL TO SHUT OFF, SHUT OFF THE MANUAL GAS VALVE TO THE FURNACE BEFORE SHUTTING OFF THE ELECTRICAL SUPPLY. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.**

In the event that electrical, fuel or mechanical failures occur, the owner should immediately turn off the gas supply at the manual gas valve located in the burner compartment and electrical power to the furnace and contact servicer.

# Important Product Information

Registering your products helps provide you with one of the strongest manufacturer limited warranties available. To register, go to the manufacturer's website or contact your dealer. You will need the serial number, model number, and installation date for each product being registered. Your dealer may have included these on your invoice or can provide a list for you to use. Please take a few moments to record the following information to ensure your product registration process is quick and easy:

Furnace Serial Number_____

Furnace Model Number_____

Indoor Coil Serial Number_____

Indoor Coil Model Number_____

Date of Installation_____

Dealer_____

### Service Information

Call your installing dealer if the unit is inoperative. Before you call, always check the following to be sure service is required:

a. Be sure the main switch that supplies power to the unit is in the ON position.
b. Replace any burned-out fuses or reset circuit breakers.
c. Be sure the thermostat is properly set.

Service Phone_____


| | |
|---|---|
| File name | 32-5027-16 |
| Supersedes | 32-5027-15 |
| Date | 10/09 |

04/09


***Trane***
***6200 Troup Highway***
***Tyler, TX 75707***

*The manufacturer has a policy of continuous product and product data improvement, and it reserves the right to change design and specifications without notice.*

# Base Limited Warranty
# Gas Furnace
# *UE1, *DE1, *UD1, *DD1, *UD1-H, *DD1-H, *UD2, *DD2, CUB1, CDB1, CUX1, and CDX1

* First letter may be preceded by an "A" or "T" (Parts Only)

## Models Less Than 20 Tons for Residential Use*

This limited warranty is provided by the manufacturer to the original purchaser and to any succeeding owner of the real property to which the gas furnace is originally affixed, and applies to products purchased and retained for use within the U.S.A. and Canada.

Beginning on January 1, 2010, R-22 refrigerant will no longer be used as a manufacturer-installed refrigerant as required by federal regulation. Following this date, depending on the availability of any remaining R-22 equipment, indoor model replacements may require that the entire system be R-410A compatible. Outdoor system components and possibly connecting line sets would need to be replaced in order to be compatible with indoor units containing R-410A refrigerant. Expenses associated with replacing system components that are not R-410A compatible will not be covered by the terms and conditions of the limited warranty.

The limited warranty period begins when installation is complete and the gas furnace start-up procedure has been properly completed, verified by installer's invoice or similar document. If installation completion and start-up date cannot be verified by installer's invoice or similar document, this limited warranty coverage begins six (6) months after the date of manufacture based on the gas furnace serial number.

If any functional part of your gas furnace fails because of a manufacturing defect within five (5) years from the date the limited warranty period begins, Warrantor will furnish without charge the required replacement part. Any other costs, such as local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.

In addition, if the heat exchanger fails because of a manufacturing defect within the sixth through twentieth year from the date the limited warranty period begins, Warrantor WILL AT ITS OPTION provide either a heat exchanger without charge, or allow a credit in the amount of the then current wholesale price of an equivalent heat exchanger toward the purchase price of a comparable heating unit. Any other costs, such as local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.

This limited warranty does not apply if the gas furnace was purchased direct (i.e. from internet websites or auctions) on an uninstalled basis. Additionally, this limited warranty will not apply unless the gas furnace is: (1) installed by a licensed or qualified HVAC technician, (2) applied and installed in accordance with the manufacturer's recommendations in its Installer's Guide, and (3) in compliance with all industry standards, national, state, and local codes.

This limited warranty does not cover failure of your furnace if it is damaged while in your possession; including, but not limited to (1) damage caused by unreasonable use, (2) damage from failure to properly maintain as set forth in the Use and Care manual, (3) damage that is not considered a manufacturing defect, such as acts of God, malfunctions or failures resulting from fire, water, storms, lightning, earthquake, theft, riot, misuse, abuse, increased utility usage costs, or (4) performance problems due to improper selection/equipment match, installation or application.

This limited warranty applies to product installed on or after 5/1/2009.

**THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT, INCLUDING BUT NOT SPECIFICALLY LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Some states and provinces do not allow limitations on how long an implied limited warranty lasts or do not allow the exclusion or limitation of incidental or conse-quential damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary by jurisdiction.

Parts will be provided by our factory organization through an authorized service organization in your area listed in the yellow pages.

If you wish further help or information concerning this limited warranty, contact:

Residential Systems
6200 Troup Highway, Tyler, TX 75707
Attention: Customer Relations

TW-1043-1409

* This limited warranty is for residential usage of this equipment and not applicable when this equipment is used for a commercial application.
A commercial use is any application where the end purchaser uses the product for other than personal, family or household purposes.

# Limited Warranty

## Induced Draft Gas Furnace

## UC1, DC1, UX1, DX1, UX1-H, DX1-H, UX, DX, UY, DY, UD-R, DD-R, UD-RV, DD-RV, UD1-H, DD1-H, UD1, DD1, UE1, DE1, UH3, DH3, UX2, DX2, UH2, DH2, UD2, DD2, UHM, DHM and UH1

(First letter may be preceded by an "A" or "T") (Parts Only)

## Models Less Than 20 Tons for Commercial Use*

This limited warranty is extended by the manufacturer to the original purchaser and to any succeeding owner of the real property to which the gas furnace is originally affixed and applies to products purchased and retained for use within the U.S.A. and Canada. There is no warranty against corrosion, erosion or deterioration.

Beginning on January 1, 2010, R-22 refrigerant will no longer be used as a manufacturer-installed refrigerant as required by federal regulation. Following this date, depending on the availability of any remaining R-22 equipment, indoor model replacements may require that the entire system be R-410A compatible. Outdoor system components and possibly connecting line sets would need to be replaced in order to be compatible with indoor units containing R-410A refrigerant. Expenses associated with replacing system components that are not R-410A compatible will not be covered by the terms and conditions of the limited warranty.

The limited warranty period begins when installation is complete and the gas furnace start-up procedure has been properly completed, verified by installer's invoice or similar document. If installation completion and start-up date cannot be verified by installer's invoice or similar document, limited warranty coverage begins six (6) months after the date of manufacture based on the gas furnace serial number.

If any part of your gas furnace fails because of a manufacturing defect within one (1) year from the date the limited warranty period begins, Warrantor will furnish without charge the required replacement part. All local transportation, related service labor, and diagnostic calls, are not included.

In addition, if the steel heat exchanger fails because of a manufacturing defect within the second through twentieth year from the date the limited warranty period begins for the gas furnace, subject to proof of original purchase, Warrantor shall furnish without charge a replacement heat exchanger. Warrantor's obligations and liabilities under this warranty are limited to furnishing F.O.B. Warrantor factory or warehouse replacement parts for Warrantor's products covered under this warranty. No liability shall attach to Warrantor until products have been paid for and then liability shall be limited solely to the purchase price of the equipment under warranty shown to be defective.

This limited warranty does not apply if the gas furnace was purchased direct (i.e. from internet websites or auctions) on an uninstalled basis. Additionally, this limited warranty will not apply unless the gas furnace is: (1) installed by a licensed or qualified HVAC technician, (2) applied and installed in accordance with the manufacturer's recommendations in its Installer's Guide, and (3) in compliance with all industry standards, national, state, and local codes.

This limited warranty does not cover your gas furnace if it is damaged while in your possession; including, but not limited to (1) damage caused by unreasonable use of the gas furnace, (2) damage from failure to properly maintain the gas furnace as set forth in the Use and Care manual (refer to "Proper Maintenance" section), (3) damage that is not considered a manufacturing defect, such as acts of God, malfunctions or failures resulting from fire, water, storms, lightning, earthquake, theft, riot, misuse, abuse, increased utility usage costs, or (4) performance problems due to improper selection / equipment match-up, installation, or application.

**THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESSED OR IMPLIED, IN LAW OF IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Some states do not allow limitations on how long an implied limited warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Parts will be provided by our factory organization through an authorized service organization in your area listed in the yellow pages. If you wish further help or information concerning this limited warranty, contact:

Residential Systems
6200 Troup Highway, Tyler, TX 75707
Attention: Consumer Relations

Or visit our website: www.trane.com/residential

TW-1012-2609

* This warranty is for commercial usage of said equipment and not applicable when the equipment is used for a residential application. Commercial use is any application where the end purchaser uses the product for other than personal, family or household purposes.